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FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. APPLICATION NO. 10/789,749 02/27/2004 FUJX 20.963 9601 Yoshiharu Tajima EXAMINER 12/19/2005 26304 KATTEN MUCHIN ROSENMAN LLP RAMPURIA, SHARAD K **57.5 MADISON AVENUE** PAPER NUMBER NEW YORK, NY 10022-2585 ART UNIT

2688

DATE MAILED: 12/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

| Office Action Summary  |   | Applica    | ition No.                         | Applicant(s)           |        |  |
|--|---|------------|-----------------------------------|------------------------|--------|--|
|  |   | 10/789     | ,749                              | TAJIMA, YOSHIHARU      |        |  |
|  |   | Examir     | ner                               | Art Unit               |        |  |
|  |   | Sharad     | Rampuria                          | 2688                   |        |  |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply   |   |            |                                   |                        |        |  |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). |   |            |                                   |                        |        |  |
| Status   |   |            |                                   |                        |        |  |
| 1)⊠  | Responsive to communication(s) filed on 27 February 2004.   |            |                                   |                        |        |  |
| ·  | This action is <b>FINAL</b> . 2b)⊠ This action is non-final.  |            |                                   |                        |        |  |
| ′—   | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is |            |                                   |                        |        |  |
| ٥,٠  | closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.                       |            |                                   |                        |        |  |
| Disposition of Claims  |   |            |                                   |                        |        |  |
| 4)⊠  | 4)⊠ Claim(s) <u>1-10</u> is/are pending in the application.   |            |                                   |                        |        |  |
| •  | 4a) Of the above claim(s) is/are withdrawn from consideration.  |            |                                   |                        |        |  |
|  | 5) Claim(s) is/are allowed.   |            |                                   |                        |        |  |
| ·  | 6) Claim(s) 1-10 is/are rejected.   |            |                                   |                        |        |  |
| ·  | Claim(s) is/are objected to.  |            |                                   |                        |        |  |
| 8) Claim(s) are subject to restriction and/or election requirement.  |   |            |                                   |                        |        |  |
| Application Papers   |   |            |                                   |                        |        |  |
| 9) The specification is objected to by the Examiner.   |   |            |                                   |                        |        |  |
| 10)⊠ The drawing(s) filed on <u>27 February 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.  |   |            |                                   |                        |        |  |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  |   |            |                                   |                        |        |  |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).   |   |            |                                   |                        |        |  |
| 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.   |   |            |                                   |                        |        |  |
| Priority under 35 U.S.C. § 119   |   |            |                                   |                        |        |  |
| 12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)⊠ All b)□ Some * c)□ None of:  |   |            |                                   |                        |        |  |
| ۵٫۱  | 1.⊠ Certified copies of the priority documents have been received.  |            |                                   |                        |        |  |
|  | Certified copies of the priority documents have been received in Application No                                 |            |                                   |                        |        |  |
|  |   |            |                                   |                        |        |  |
|  |   |            |                                   |                        |        |  |
| application from the International Bureau (PCT Rule 17.2(a)).  |   |            |                                   |                        |        |  |
| * See the attached detailed Office action for a list of the certified copies not received.   |   |            |                                   |                        |        |  |
|  |   |            |                                   |                        |        |  |
| Attachment(s)  |   |            |                                   |                        |        |  |
| 1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  |   |            |                                   |                        |        |  |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date  |   |            |                                   |                        |        |  |
|  | nation Disclosure Statement(s) (PTO-1449 or r No(s)/Mail Date   | PTO/SB/08) | 5) Notice of Informal P 6) Other: | atent Application (PTC | J-152) |  |
| S Ratest and Trademody Office.   |   |            |                                   |                        |        |  |

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#### **DETAILED ACTION**

I. The current office-action is in response to the application filed on 2/27/04.

Accordingly, Claims 1-10 are pending for further examination as follows:

#### **Priority**

II. Receipt is acknowledged of papers submitted under 35 U.S.C. 1 19(a)-(d), which papers have been placed of record in the file.

### Information Disclosure Statement

III. The Information Disclosure statement (IDS) submitted is in compliance with the provisions of 37 CFR 1.97. Accordingly, the examiner has considered the information disclosure statements.

# Claim Rejections - 35 USC § 102

IV. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- V. Claims 1-10 are rejected under 35 U.S.C. 102 (e) as being anticipated by Dolan [US 6628632]

As per claim 1, Dolan teaches:

A radio base station apparatus (100; Fig.2, Col.5; 39-44, Claim 1; 16-18 and Abstract) comprising:

A receiving section for receiving a signal from a terminal via a radio channel assigned to the terminal; (e.g. The base station controller includes a transceiver 340 for receiving signals from and transmitting signals to antenna 320; Col.5; 45-48, Claim 1; 19-22)

An identifying section for identifying a particular radio base station, which is to maintain the radio channel between the radio base station apparatus and the terminal during a process of a diversity handover for the terminal; (e.g. The transceiver 340 is connected to a processor such as a CPU 360 for example, which is in turn connected to memory 380. The CPU 360 is further connected to a CPU 360a of a neighboring base station 101, for example. Once identity and address of nth order neighbors is known, a similar direct connection can be established between CPU 360 and the CPU of the nth order neighbors; Col.5; 48-67, Col.7; 48-55, Claim 1; 23-27)

A network interface section for delivering the signal to a network when a local station is not the particular radio base station; (e.g. In step 404, the primary controller supervises ordinary call processing routines as is known in the art. As a part of the call processing, the primary controller periodically measures the signal quality from the wireless terminal. If signal quality diminishes below a certain point, the call may be terminated or a handoff may be forced, as is known in the art; Col.7; 62-Col.8; 23) and

An inter-office interface section for delivering to the network a composite wave of the signal and a signal that is forwarded from a radio base station forming a wireless zone adjacent

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to a wireless zone formed by the local station, when the local station is the particular radio base station, the forwarded signal having arrived at the radio base station from the terminal via the radio channel. (e.g. At step 434, if the handoff is accepted, the primary controller proceeds to step 436 to perform the handoff and then cease supervision of the call at step 438. If at step 434, the handoff was not accepted by the candidate base station, the primary controller determines at step 440 whether other semi-soft handoff candidates exist. If such other candidates exist, the primary controller proceeds to step 428; Col.9; 34-54, Claim 1; 28-34)

As per claim 2, Dolan teaches:

A radio base station apparatus (100; Fig.2, Col.5; 39-44, Claim 1; 16-18 and Abstract) comprising:

A receiving section for receiving a signal from a terminal via a radio channel assigned to the terminal; (e.g. The base station controller includes a transceiver 340 for receiving signals from and transmitting signals to antenna 320; Col.5; 45-48, Claim 1; 19-22)

An identifying section for identifying a particular radio base station, which is to maintain the radio channel between the radio base station apparatus and the terminal during a process of a diversity handover for the terminal; (e.g. The transceiver 340 is connected to a processor such as a CPU 360 for example, which is in turn connected to memory 380. The CPU 360 is further connected to a CPU 360a of a neighboring base station 101, for example. Once identity and address of nth order neighbors is known, a similar direct connection can be established between CPU 360 and the CPU of the nth order neighbors; Col.5; 48-67, Col.7; 48-55, Claim 1; 23-27)

A network interface section for delivering the signal to a network when a local station is not the particular radio base station; (e.g. In step 404, the primary controller supervises ordinary call processing routines as is known in the art. As a part of the call processing, the primary controller periodically measures the signal quality from the wireless terminal. If signal quality diminishes below a certain point, the call may be terminated or a handoff may be forced, as is known in the art; Col.7; 62-Col.8; 23) and

An inter-office interface section for forwarding the signal to the particular radio base station when the local station is not the particular radio base station. (e.g. At step 434, if the handoff is accepted, the primary controller proceeds to step 436 to perform the handoff and then cease supervision of the call at step 438. If at step 434, the handoff was not accepted by the candidate base station, the primary controller determines at step 440 whether other semi-soft handoff candidates exist. If such other candidates exist, the primary controller proceeds to step 428; Col.9; 34-54, Claim 1; 28-34)

As per claim 3, Dolan teaches:

A radio base station apparatus (100; Fig.2, Col.5; 39-44, Claim 1; 16-18 and Abstract) comprising:

A network interface section for capturing a signal that is delivered from a network in a physical layer (Col.7; 48-55) of the network; (e.g. In step 404, the primary controller supervises ordinary call processing routines as is known in the art. As a part of the call processing, the primary controller periodically measures the signal quality from the wireless terminal. If signal

quality diminishes below a certain point, the call may be terminated or a handoff may be forced, as is known in the art; Col.7; 62-Col.8; 23)

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An identifying section for identifying a particular radio base station which is to maintain a radio channel assigned to a terminal as a receiving end of the signal during a process of a diversity handover for the terminal; (e.g. The transceiver 340 is connected to a processor such as a CPU 360 for example, which is in turn connected to memory 380. The CPU 360 is further connected to a CPU 360a of a neighboring base station 101, for example. Once identity and address of nth order neighbors is known, a similar direct connection can be established between CPU 360 and the CPU of the nth order neighbors; Col.5; 48-67, Col.7; 48-55, Claim 1; 23-27)

A transmitting section for transmitting the signal to the terminal via the radio channel; (e.g. The base station controller includes a transceiver 340 for receiving signals from and transmitting signals to antenna 320; Col.5; 45-48, Claim 1; 19-22) and

An inter-office interface section for forwarding the signal to a radio base station forming a wireless zone adjacent to a wireless zone formed by a local station, when the local station is the particular radio base station. (e.g. At step 434, if the handoff is accepted, the primary controller proceeds to step 436 to perform the handoff and then cease supervision of the call at step 438. If at step 434, the handoff was not accepted by the candidate base station, the primary controller determines at step 440 whether other semi-soft handoff candidates exist. If such other candidates exist, the primary controller proceeds to step 428; Col.9; 34-54, Claim 1; 28-34)

As per claim 4, Dolan teaches:

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A radio base station apparatus (100; Fig.2, Col.5; 39-44, Claim 1; 16-18 and Abstract) comprising:

An inter-office interface section for capturing a signal whose destination is a terminal and that have been forwarded from a radio base station forming a wireless zone adjacent to a wireless zone formed by a local station; (e.g. At step 434, if the handoff is accepted, the primary controller proceeds to step 436 to perform the handoff and then cease supervision of the call at step 438. If at step 434, the handoff was not accepted by the candidate base station, the primary controller determines at step 440 whether other semi-soft handoff candidates exist. If such other candidates exist, the primary controller proceeds to step 428; Col.9; 34-54, Claim 1; 28-34)

An identifying section for identifying a particular radio base station which is to maintain a radio channel assigned to the terminal during a process of a diversity handover for the terminal; (e.g. The transceiver 340 is connected to a processor such as a CPU 360 for example, which is in turn connected to memory 380. The CPU 360 is further connected to a CPU 360a of a neighboring base station 101, for example. Once identity and address of nth order neighbors is known, a similar direct connection can be established between CPU 360 and the CPU of the nth order neighbors; Col.5; 48-67, Col.7; 48-55, Claim 1; 23-27) and

A transmitting section for transmitting the signal to the terminal via the radio channel when the local station is not the particular radio base station. (e.g. The base station controller includes a transceiver 340 for receiving signals from and transmitting signals to antenna 320; Col.5; 45-48, Claim 1; 19-22)

As per claim 5, Dolan teaches:

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The radio base station apparatus according to claim 1, further comprising an inter-office link securing section for securing a link according to a procedure of a channel control for assigning the radio channel to the terminal or through cooperation with a base station controller performing the channel control, the link being used for transfer of the signal between the radio base station apparatus and the radio base station, wherein said inter-office interface section combines the received signal with a signal that is forwarded via the link secured by said inter-office link securing section. (Col.7; 48-55)

## As per claim 6, Dolan teaches:

The radio base station apparatus according to claim 2, further comprising an inter-office link securing section for securing a link according to a procedure of a channel control for assigning the radio channel to the terminal or through cooperation with a base station controller performing the channel control, the link being used for transfer of the signal between the radio base station apparatus and the particular radio base station, wherein said inter-office interface section forwards the signal to the particular radio base station via the link secured by said inter-office link securing section. (Col.7; 48-55)

### As per claim 7, Dolan teaches:

The radio base station apparatus according to claim 3, further comprising an inter-office link securing section for securing a link according to a procedure of a channel control for assigning the radio channel to the terminal or through cooperation with a base station controller performing the channel control, the link being used for transfer of the signal between the radio

base station apparatus and the radio base station, wherein said inter-office interface section forwards the signal via the link secured by said inter-office link securing section. (Col.7; 48-55)

As per claim 8, Dolan teaches:

The radio base station apparatus according to claim 4, further comprising an inter-office link securing section for securing a link according to a procedure of a channel control for assigning the radio channel to the terminal or through cooperation with a base station controller performing the channel control, the link being used for transfer of the signal between the radio base station apparatus and the radio base station, wherein said inter-office interface section captures a signal that is forwarded via the link secured by said inter-office link securing section. (Col.7; 48-55)

As per claim 9, Dolan teaches:

A base station controller (100; Fig.2, Col.5; 39-44, Claim 1; 16-18 and Abstract) comprising:

A channel controlling section for performing a channel control over a terminal in cooperation with a radio base station forming a wireless zone where the terminal can visit, and for determining a particular radio base station according to the channel control and all or part of configuration of the wireless zone, channel allocation, and frequency allocation, (e.g. The signal quality of a neighboring base station is approximated or derived from the measured pilot channel strength, using methods which are well-known in the art; Col.8; 1-9) the particular radio base station being to maintain a radio channel assigned to the terminal during a process of a diversity handover for the terminal; (e.g. At step 434, if the handoff is accepted, the primary controller

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proceeds to step 436 to perform the handoff and then cease supervision of the call at step 438. If at step 434, the handoff was not accepted by the candidate base station, the primary controller determines at step 440 whether other semi-soft handoff candidates exist. If such other candidates exist, the primary controller proceeds to step 428; Col.9; 34-54, Claim 1; 28-34) and

A network interface section for interfacing with a network under the channel control, the network being a network in which a communication channel is to be formed between said base station controller and the terminal via the radio base station. (e.g. In step 404, the primary controller supervises ordinary call processing routines as is known in the art. As a part of the call processing, the primary controller periodically measures the signal quality from the wireless terminal. If signal quality diminishes below a certain point, the call may be terminated or a handoff may be forced, as is known in the art; Col.7; 62-Col.8; 23)

As per claim 10, Dolan teaches:

The base station controller according to claim 9, wherein said channel controlling section performs the channel control such that a radio base station is to be the particular radio base station, the radio base station forming a wireless zone in which the diversity handover is done in a suitable manner for all or part of configuration of a wireless zone, channel allocation, and frequency allocation. (e.g. The signal quality of a neighboring base station is approximated or derived from the measured pilot channel strength, using methods which are well-known in the art; Col.8; 1-9)

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Conclusion

VI. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Sharad Rampuria whose telephone number is (571) 272-7870.

The examiner can normally be reached on M-F. (9-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, George Eng can be reached on (571) 272-7495. The fax phone number for the

organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://portal.uspto.gov/external/portal/pair. Should you have questions on access to

the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-

free) or EBC@uspto.gov.

Sharad Rampuria Examiner

Examiner

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GEORGE ENG PRIMARY EXAMINED